2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
			2021 INTERNATIONAL MECHANICA	AL CODE			
			Chapter 13 Fuel Oil Piping and S	torage			
TAG Mem	ber Assign	ed: Staff					
1301.4	Same	Fuel tanks, piping, fittings and valves	Adds "fittings" to the scope.	N	N	N	
Table 1302.3	Same	Fuel Oil Piping and Fittings	"Fittings" was added to copper and steel piping rows, and stainless was added to the steel piping and tubing rows, with the appropriate standards added	N	N	N	
1302.8	Same	Flexible connectors and hoses	Reference to UL 536 was deleted as irrelevant; replaced with listed and labeled as being acceptable for the application			N	
1302.9	New	Piping systems	Adding a reference standard for stainless still double containment tubing for both above ground and underground systems	N	N (could decrease cost)	N	
1303.3	Same	Joint preparation and installation	Adds press-connect joints	N	N	N	
1303.3.2; 1303.3.5	New	Mechanical joints/Press-connect joints	Adds a new section for press-connect joints to distinguish from mechanical joints	N	N	N	
1303.4	Same	Copper or copper alloy pipe	Adds press-connect joints as acceptable for copper or copper alloy pipes as currently allowed in the standard referenced in Table 1302.3	N	N	N	
1303.5	Same	Copper or copper alloy tubing	Editorial — General language clean up	N	N	N	
1303.7/ 1303.8	Same	Steel pipe/Steel tubing	Adds stainless steel and press connect joints to conform with change to Table 1302.3	N	N	N	

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
			Chapter 15 Referenced Standa	ards			
TAG Mem	ber Assign	ed: Staff					
		ANCE 60335-2-40- 2019	Existing State Amendment Retain state amendment (although it is listed under UL without the ANCE reference, but as the 2017 edition)			Y	
		ANSI/ACCA 10	Adds HVAC standard for swimming pools and spas as referenced in 403.2.1	N	N	N	
		ASHRAE 15-2019	Existing State Amendment  Delete state amendment—standard is updated to the same version in the 2021 edition			N	
		ASHRAE 34-2019	Existing State Amendment  Delete state amendment—standard is updated to the same version in the 2021 edition			N	
		ASHRAE 62.2- 2016	Existing State Amendment Retain state amendment, but update to 2019			Y	
		ASHRAE 90.1	Added as an alternate compliance method in 401.2	N	N	N	
		ASME	Four new standards added as referenced in the new refrigerant piping materials and joints and connections sections in Chapter 11:  B1.1-2003 Unified Inch Screw Threads B1.13M-2006 Metric Screw Threads B1.20.3-1976 Dryseal Pipe Threads B16.50-2018 Copper & Copper alloy fittings	N	N	N	

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
		ASSE 1079	Corresponds to new refrigeration joints and connections section: Performance requirements for dielectric pipe unions	N	N	N	
		ASTM	<ul> <li>New standards added as referenced in the new refrigerant piping materials and joints and connections sections in Chapter 11:</li> <li>A181/A181M-14 Carbon Steel Forgings</li> <li>A193/A193M-19 Alloy &amp; Stainless Steel Bolting</li> <li>A334/A334M-04a(2016) Seamless and Welded Carbon and Alloy Steel Tubes</li> <li>A707/A707M-19 Forged Carbon and Alloy Steel Flanges</li> <li>B210/B210M-19a Aluminum and Aluminum Alloy Drawn Seamless Tubes</li> <li>B361-16 Factory-made Wrought Aluminum Welding Fittings</li> <li>B491/491M-15 Aluminum Extruded Round Tubes</li> <li>B1003-16 Seamless Copper Tubes for Linesets</li> <li>Various other new standards for Chapters 12 and 13:</li> <li>Ch 12:</li> <li>F2855-12 CPVC-AL-CPVC Composite Pressure Tubing</li> <li>F3253-2017 PEX Tubing with Oxygen Barrier</li> <li>Ch13:</li> <li>A240/A240M-17 Chromium and Chromium Nickle Stainless Steel for Pressure Vessels</li> <li>A269-15 Seamless and Welded Austenitic Stainless Steel Pipes</li> </ul>	N	N	N	

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			A312-17 Seamless, Welded and Heavily Cold Worked Austenitic Stainless Steel Pipes F3226-16 Metallic Press-Connect Fittings				
		CSA 60335-2-40- 2019	Existing State Amendment Retain state amendment (although it is listed under UL without the ANCE reference, but as the 2017 edition)			Y	
		HVI 915/916/920- 2015	Existing State Amendment Retain state amendment but update to the 2020 edition			Y	
		NFPA	Three new NFPA standard as referenced by other code changes (407.1, 607.4.1.2): 80-19 Standard for Fire Doors and Other Opening Protectives 99-21 Health Care Facilities Code 105-19 Standard for Smoke Door Assemblies and Other Opening Protectives	N	N	N	
		NSF	Two new standards as referenced by other code changes (1210.4, 1210.5) and one added missing reference (NSF 14): 14-2017 Plastic Piping System Components and Related Materials 358-3-2016 PEX Pipe and Fittings for Water Based Ground Source Heat Pumps 358-4-2017 OE-RT Pipe and Fittings for Water Based Ground Source Heat Pumps	N	N	N	

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		SMACNA	Add two missing referenced standards (510.8.1):  SMACNA/ANSI—2011 Rectangular Industrial Duct Construction Standards, 2 <sup>nd</sup> Edition  SMACNA/ANSI—2013 Round Industrial Duct Construction Standards, 3 <sup>rd</sup> Edition	N	N	N	
		UL	<ul> <li>New standards from refrigeration changes: 109-97 Tube fittings for Flammable and Combustible Fluids, Refrigeration Service and Marine Use</li> <li>427-11 Standard for Refrigerating Units 474-15 Standard for Dehumidifiers</li> <li>484-14 Standard for Room Air Conditioners</li> <li>New standard based on change to 1302.9: 971A—2006 Outline of Investigation for Metallic Underground Fuel Pipe 1369-18 Standard for Aboveground Piping for Flammable and Combustible Liquids</li> <li>Other new standards: 1370-11 Unvented Alcohol Fuel Burning Decorative Appliances (with revisions through March 25, 2016) (929.1)</li> <li>8782-17 Outline of Investigation for Pollution Control Units for Commercial Cooking (506.5.2)</li> <li>UL/CSA 60335-2-40-17 Household and Similar Electrical Appliances—Safety—Part 2-40: Particular Requirements for Electrical Heat Pumps, Air- Conditioners and Dehumidifiers (908.1, 916.1, 918.1, 918.2)</li> </ul>	Z	N	Y 60335-2-40 Should reference 2019 as in existing state amendment; Reference to 1101.2 for this standard	

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
			UL/CSA 60335-2-89-17 Household and Similar Electrical Appliances—Safety— Part 2-89: Particular Requirements Commercial Refrigerating Appliances with an Incorporated or Remote Refrigerant Unit or Compressor (T 1101.2)				
		General edition updates	AHRI 700, ANSI Z21.1, ANSI/AMCA 210/ASHRAE 51, ASHRAE 62.1/62.2, ASHRAE 180, ASHRAE Fundamentals Handbook, ANSI/ASSP Z359.1, AWWA 151, IBC, ICC 900, ICC 901, IECC, IFC, IFGC, IRC, ANSI/IIAR 3, ANSI/IIAR 4, ANSI/IIAR 5, MSS SP58, NBBI AH116, NSF 358-1, NSF 358-2, ASTM A53, A105, A106, A234, A254, 420, B135, B251, B280, B302, B813, B819, B828, C315, C411, D56, D93, D1785, D2235, D2412, D2466, D2564, D2846, D2996, D3261, E84, E119, E136, E814, E1509, E2231, F438, F879, F877, F1055, F1282, F1548, F1807, F1960, F2159, F2389, F2735, F2769			Y UL 864 (existing amendment) should be updated to standard referenced in 2021 IMC with a reference to Section 606.2.2 added to the citation	
			CSA 151, CSA B137.1, B137.2, B137.3, B137.5, B137.6, B137.9, B137.10, B137.11, B137.18, C22.2 No. 218.1, C22.2 No. 236				
			NFPA 1, 30A, 31, 58, 69, 70, 72, 82, 85, 91, 92, 96, 211, 262, 286, 853				
			UL 268, 412, 471, 499, 507, 508, 536, 555, 555C, 555S, 641, 705, 710, 723, 727, 731, 732, 834, 858, 864, 867, 875, 923, 1046, 1240, 1261, 1563, 1618, 1812, 1815, 1820, 1887, 1978, 1995, 2043, 2075, 2158, 2158A, 2523				

<u> </u>				
			Retain state amendment	
			(although it is listed under	
			UL without the ANCE	
			reference, but as the 2017	
			edition)	